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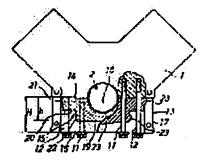
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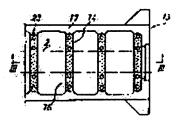
(54) RUDDER FRAME

(57) Abstract:

PURPOSE: To reduce a difference of thermal expansion for lightening a rudder frame by providing a bearing cap member defining a crankshaft bearing part on the rudder frame body connected to a cylinder block by a fastening bolt to making the maximum height of the cap member smaller than that of the rudder frame body.

CONSTITUTION: A bearing cap member 14 made of cast iron is cast into a rudder frame body 13 made of aluminum alloy so that the maximum height h of the member 14 is made smaller than that H of the rudder frame body 13. While the rigidity of the rudder frame is not damaged, even the iron made crankshaft 2 does not so much differ in the coefficient of thermal expansion and the thickness of a cross beam 16 or the like is not needed to increase since a load on a bearing part 18 is supported by the bearing cap member 14. The rudder frame construction is substantially lightened by reducing the difference of thermal expansion and ensuring the load strength to display the rigidity thereof.





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